Listing of Claims to Replace All Prior Versions of Claims in the Application

1. (currently amended) A method of generating an XML document comprising:

preparing ~~only~~ a portion of an XML document;

sending said portion to a client <u>before the XML document is entirely built</u>; and

repeating said preparing and said sending until ~~an~~ <u>the</u> entire XML document is sent to a client.

2. (original) The method of claim 1, wherein said preparing comprises:

gathering data that is to appear in the XML document;

calling an emitter object;

passing the emitter object gathered data; and

formatting the gathered data into an appropriate XML syntax with the emitter object.

3. (original) The method of claim 2, wherein said gathering comprises using a data gathering object to gather said data.

4. (original) The method of claim 1 further comprising prior to said preparing, receiving a request for the XML document from the client.

5. (currently amended) A method of responding to an Extensible Markup Language (XML) request comprising:

receiving a request from a client for an XML document;

preparing ~~only~~ a portion of a response to the request; and

sending the ~~response~~ portion to the client <u>before the XML document is entirely built</u>.

6. (original) The method of claim 5 further comprising repeating said preparing and said sending until an entire response has been sent to the client.

7. (original) The method of claim 5 further comprising repeating said preparing and said sending until an entire response has been sent to the client, said preparing of response portions taking place in a defined order.

8. (original) The method of claim 5 further comprising repeating said preparing and said sending until an entire response has been sent to the client, said preparing of response portions taking place in a defined order, wherein the response comprises an XML multistatus response.

9. (original) The method of claim 5, wherein the response comprises an XML multistatus response.

10. (original) The method of claim 5, wherein said preparing comprises:

gathering data for said response portion with a data-gathering mechanism; and

formatting gathered data into an appropriate XML syntax with a data-formatting mechanism.

11.　(original) The method of claim 10, wherein said sending comprises sending the response portion to the client with a response-sending mechanism.

12.　(original) The method of claim 11, wherein said response-sending mechanism includes a buffer for holding at least one response portion that is prepared by the data-formatting mechanism and further comprising:

defining a buffer threshold;

buffering said at least one response portion in the buffer; and

sending said at least one response portion to the client when the buffer threshold is reached.

13.　(original) A computer-readable medium having a program which, when executed by a computer, performs the method of claim 5.

14.　(previously presented) A method of responding to an Extensible Markup Language (XML) request comprising:

receiving a request from a client for an XML document;

gathering data that is to appear in a response to the client's request;

calling an emitter object and passing the emitter object the gathered data;

formatting the gathered data into an appropriate XML syntax with the emitter object; and

emitting formatted data from the emitter object, the emitter object emitting the formatted data in a manner in which an XML response can be sent to the client without having to build a hierarchical tree that represents the XML response.

15.   (original) The method of claim 14 further comprising:

accumulating the emitted formatted data in a buffer; and

sending buffered data to the client when the buffer contains a defined amount of data that is less than an amount that would constitute a complete response to the client's request.

16.   (original) The method of claim 14, wherein:

said calling comprises calling the emitter object multiple times; and

said emitting comprises emitting multiple amounts of formatted data.

17.   (original) The method of claim 14, wherein:

said calling comprises calling the emitter object multiple times and in a defined order; and

said emitting comprises emitting multiple amounts of formatted data.

18.   (original) The method of claim 14, wherein said gathering comprises gathering data that is to appear in a multistatus response.

19.   (original) A computer-readable medium having a program which, when executed by a computer, performs the method of claim 14.

20.   (currently amended) A method of responding to an Extensible Markup Language (XML) request comprising:

receiving an XML request from a client, the XML request containing a Web Distributed Authoring and Versioning (WebDAV) request method;

determining the WebDAV request method that is contained in the client's request;

creating a request method object for the WebDAV request method;

gathering data that is to appear in a response to the client's request with the request method object;

calling an emitter object and passing the emitter object data that was gathered by the request method object; and

generating ~~at least~~ a portion of a syntactically correct XML response with the emitter object using the data that was gathered by the request method object <u>before the XML response is entirely built</u>.

21.   (original) The method of claim 20 further comprising sending the response portion to the client.

22.   (original) The method of claim 21, wherein the sending of the response portion comprises doing so without building an entire hierarchical tree structure that represents an entire response for the client's request.

23.   (original) The method of claim 20, wherein said calling comprises calling the emitter object a plurality of times for a given response.

24.   (original) The method of claim 20, wherein said generating comprises generating a plurality of syntactically correct XML response portions and sending said response portions separately to the client.

25.   (original) The method of claim 20, wherein said calling comprises calling the emitter object a plurality of times and in a defined order for a given response.

26.   (original) The method of claim 20, wherein:

said calling comprises calling the emitter object a plurality of times for a given response; and

said generating comprises generating a plurality of syntactically correct XML response portions and sending said response portions separately to the client.

27.   (original) The method of claim 20 further comprising:

buffering a plurality of response portions in a buffer; and

sending the plurality of response portions together to the client.

28.   (original) The method of claim 27, wherein said sending of the plurality of response portions comprises sending less than an entirety of a response to the client.

29.   (original) The method of claim 27 further comprising:

setting a threshold value on the buffer;

determining when the threshold value is satisfied by the response portions that are buffered therein; and

responsive to the threshold value being satisfied, sending the buffered response portions to the client.

30. (original) A computer-readable medium having a program which, when executed by a computer, performs the method of claim 20.

31. (currently amended) An Extensible Markup Language (XML) request processor comprising:

an XML response generator comprising:

a request-receiving mechanism configured to receive a request from a client for an XML document;

a response-preparing mechanism coupled with the request-receiving mechanism and configured to prepare only a portion of an XML response at a time; and

a sending mechanism coupled with the response-preparing mechanism and configured to receive response portions from the response-preparing mechanism and to send the response portions to the client before the XML response is entirely built, the sent response portions constituting less than an entirety of a response.

32. (currently amended) The XML request processor of claim 31, wherein the response-preparing mechanism is configured to prepare response portions and the sending mechanism is configured to send the response portions to the client until an the entire XML response is sent to the client.

33. (currently amended) The XML request processor of claim 31, wherein the XML response that is sent to the client comprises a multistatus response.

34.   (original) The XML request processor of claim 31, wherein the response-preparing mechanism is configured to prepare response portions in a defined order.

35.   (original) The XML request processor of claim 31, wherein the response-preparing mechanism includes a data-gathering function that gathers data that is to appear in a client's response, and a formatting function that receives data that is gathered by the data-gathering function and formats the data into an appropriate XML syntax.

36.   (original) The XML request processor of claim 31, wherein the sending mechanism includes a buffer for buffering response portions that are received from the response-preparing mechanism, and wherein the buffer has a defined threshold which, when satisfied, enables the sending mechanism to send buffered response portions to the client.

37.   (currently amended) An Extensible Markup Language (XML) request processor comprising:

a data-gathering object ~~for gathering~~ to gather data that is to appear in a client response and ~~generating~~ generate calls in a predefined order that contain the gathered data; and

an emitter object ~~configured~~ to receive calls that are generated by the data-gathering object and format the data contained therein into an appropriate XML syntax, wherein the emitter object is to emit a portion of the client response before the client response is entirely built.

38. (currently amended) The XML request processor of claim 37, wherein the emitter object is ~~configured~~ to <u>selectively</u> emit <u>the portion of the client response without having to build a hierarchical tree that represents</u> ~~only portions of a response that are piecewise sent to~~ the client <u>response</u>.

39. (original) The XML request processor of claim 38 further comprising a buffer that is configured to receive response portions that are emitted from the emitter object, buffered response portions being sent to the client when a defined buffer threshold is satisfied.

40. (original) The XML request processor of claim 37 further comprising a buffer that is configured to receive response portions that are emitted from the emitter object, buffered response portions being accumulated by the buffer and sent to the client when a defined buffer threshold is satisfied, the buffered response portions comprising less than a complete response.

41. (currently amended) A computer-readable medium having a computer program for responding to an XML request, the program comprising the following steps:

receiving a client request;

determining an HTTP verb that is contained in the client request;

instantiating a request method object that corresponds to the HTTP verb that is contained in the client request;

using the request method object to gather information that is to appear in an XML response to the client's request;

making a series of calls to an emitter object that is configured to receive information from the request method object and process the information into a response portion having an appropriate XML syntactic format; and

sending the response portion to the client before the XML response is entirely built.

42. (original) The program of claim 41, wherein the making of the series of calls comprises doing so in a defined order.

43. (original) The program of claim 41 further comprising accumulating response portions, said sending comprising sending accumulated response portions to the client, the accumulated response portions constituting less than an entirety of a complete client response.

44. (currently amended) A computer-readable medium having software code that is configured to receive a request from a client and instantiate an object that corresponds to an HTTP verb that is contained in the request, the software code further using the object to build a portion of an XML response to the request that is to be sent to the client before the XML response is entirely built.

45. (original) The software code of claim 44, wherein individual objects that are instantiable by the software code are unique to an HTTP verb with which it corresponds.

46.   (original) The software code of claim 44, wherein the object is configured to make calls to another object, the calls containing information that is to be included in the XML response.

47.   (original) The software code of claim 44, wherein the object is configured to make calls to a second object, the calls containing information that is to be included in the XML response, the second object being configured to format the information into an appropriate syntactic form.

48.   (currently amended) The method of claim 1, wherein <u>repeating said preparing and said</u> sending <s>said portion</s> further comprises <s>sending said portion before the XML document is entirely built</s> <u>preparing and sending portions so that a hierarchical order of the entire XML document is preserved</u>.

49.   (currently amended) The method of claim 5, wherein sending the response portion to the client further comprises sending the <s>response</s> portion <s>before the XML document is entirely built</s> <u>so that a hierarchical order of the entire XML document is preserved</u>.

50.   (currently amended) The XML request processor of claim 31, wherein the sending mechanism is further to send <s>a first one of</s> the response portions to the client <u>so that a hierarchical order of the entire</u> <s>before the</s> XML document is <s>entirely built</s> <u>preserved</u>.

51.   (currently amended) The XML request processor of claim 37, wherein the emitter object is further configured to ~~include the data formatted in the appropriate XML syntax in~~ the portion of the client response ~~to be sent to the client~~ so that a hierarchical order of an XML document forming the response is preserved.

52.   (currently amended) The program of claim 41, wherein sending the response portion to the client further comprises sending the response portion ~~without first entirely building an XML document~~ so that a hierarchical order of an XML document forming the response to the client's request is preserved.

53.   (currently amended) The software code of claim 44, wherein sending the response portion to the client further comprises sending the response portion ~~without first entirely building~~ so that a hierarchical order of an XML document forming the XML response is preserved.

54.   (previously presented) The method of claim 20 wherein said creating a request method object further comprises creating a request method object for the WebDAV request method responsive to determination of the WebDAV request method.

55.   (previously presented) The program of claim 41 wherein said instantiating a request method object further comprises instantiating a request method object that corresponds to the HTTP verb responsive to the determination of the HTTP verb.